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ELECTROLUMINESCENT ELEMENT (English)

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ELECTROLUMINESCENT ELEMENT

PUB. NO.: 11-087062 [JP 11087062 A]

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ABSTRACT

PROBLEM TO BE SOLVED: To enable the brilliant full color display at a low cost while preventing the leak between picture elements by forming a liquid phase charge injection and transfer layer and a liquid phase light emitting layer between banks formed between positive electrode groups, and forming this bank of a material having a low critical surface tension.

SOLUTION: Patterning is applied to a positive electrode 6 formed on a transparent substrate 7 so as to form positive electrode groups. A bank 4 is formed between these positive electrode groups, and a hole injection and transfer layer 5 and a liquid phase light emitting layer 2 are formed between this bank 4, and a negative electrode 1 is formed thereon so as to obtain an electroluminescent element. At this stage, as a structural material for this bank 4, a material having a critical surface tension smaller than that of the liquid phase, for example, at 30 dyne/cm or less is used. The bank 4 is thereby provided with water repellency and oil repellency in relation to the described liquid phase, and leak to be generated by ride-on of a liquid phase material between picture elements is prevented, and while contamination between the picture elements is prevented so as to enable the remarkably brilliant color display.

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